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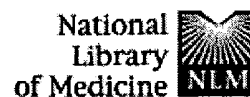
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- ☐ 3. [WO 200061793A](#). Identifying antibacterial compounds, comprises identifying an antagonist or inhibitor of the expression of a gene encoding a polypeptide essential for bacterial growth or survival. JACOBI, A, et al. A61K038/00 A61K045/00 A61P031/04 C07K014/245 C12N015/09 C12Q001/02 C12Q001/18 C12Q001/68 G01N033/15 G01N033/50 G01N033/53.
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- ☐ 4. [EP 1043403A](#). Identifying antagonists of the expression of gene encoding bacterial growth polypeptide useful for treating bacterial infections or diseases, by evaluating transcription of the gene in the presence of test molecule. C07K014/245 C12Q001/18 C12Q001/68.
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J Mol Microbiol Biotechnol. 2001 Jul;3(3):483-9.

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Biochem J. 2001 Jan 1;353(Pt 1):59-67.

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Proc Natl Acad Sci U S A. 2000 Mar 14;97(6):2486-90.

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Proc Natl Acad Sci U S A. 1999 Oct 12;96(21):11758-63.

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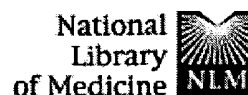
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Mining bacterial genomes for antimicrobial targets.

Loferer H.

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Hannes.Loferer@gpc-biotech.com

The elucidation of whole-genome sequences is expected to have a revolution impact on the discovery of novel medicines. With the availability of complete genome sequences of more than 30 different species, the field of antimicrobial drug discovery has the opportunity to access a remarkable diversity of genomic information. In this review, I summarize how microbial genomics has changed strategies of drug discovery by applying bioinformatics, novel genetic approaches and genomics-based technologies, including analysis of gene expression using DNA microarrays.

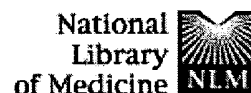
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Integrated bacterial genomics for the discovery of novel antimicrobials.

Loferer I I, Jacobi I I, Posch I I, Gauss I I, Meier-Ewert I I, Seizinger I I

Genome Pharmaceuticals Corporation, Fraunhoferstrasse 20, D-82152 Martinsried/Munich, Germany.

Sequencing of bacterial genomes has been progressing with breathtaking speed. Currently, the genomes of 23 bacterial species are sequenced, with approximately 40 more sequencing projects in progress. Industrial research is now facing the challenge of translating this information efficiently into drug discovery. This review will summarize the impact of bacterial genomics, bioinformatics and second-generation genomic technologies on target identification, assay development, lead optimization and compound characterization.

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